

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/648,36/A
Source: 1FW/b
Date Processed by STIC: 7/6/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 07/06/2006

PATENT APPLICATION: US/10/648,361A

TIME: 17:28:24

Input Set : A:\2006-06-29 0933-0210P.ST25.txt

Output Set: N:\CRF4\07062006\J648361A.raw

3 <110> APPLICANT: SAARMA, Mart et al.
 5 <120> TITLE OF INVENTION: NOVEL NEUROTROPHIC FACTOR PROTEIN AND USES THEREOF
 7 <130> FILE REFERENCE: 0933-0210P
 9 <140> CURRENT APPLICATION NUMBER: US 10/648,361A
 10 <141> CURRENT FILING DATE: 2003-08-27
 12 <150> PRIOR APPLICATION NUMBER: US 60/406,927
 13 <151> PRIOR FILING DATE: 2002-08-30
 15 <160> NUMBER OF SEQ ID NOS: 22
 17 <170> SOFTWARE: PatentIn version 3.2
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 564
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (1)..(564)
 28 <400> SEQUENCE: 1

P.6

29	atg tgg tgc gcg agc cca gtt gct gtg gtg gcc ttt tgc gcc ggg ctt	48
30	Met Trp Cys Ala Ser Pro Val Ala Val Val Ala Phe Cys Ala Gly Leu	
31	1 5 10 15	
33	ttg gtc tct cac ccg gtg ctg acg cag ggc cag gag gcc ggg ggg cgg	96
34	Leu Val Ser His Pro Val Leu Thr Gln Gly Gln Glu Ala Gly Gly Arg	
35	20 25 30	
37	cca ggg gcc gac tgt gaa gta tgt aaa gaa ttc ttg aac cga ttc tac	144
38	Pro Gly Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asn Arg Phe Tyr	
39	35 40 45	
41	aag tca ctg ata gac aga gga gtt aac ttt tcg ctg gac act ata gag	192
42	Lys Ser Leu Ile Asp Arg Gly Val Asn Phe Ser Leu Asp Thr Ile Glu	
43	50 55 60	
45	aaa gaa ttg atc agt ttt tgc ttg gac acc aaa gga aaa gaa aac cgc	240
46	Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr Lys Gly Lys Glu Asn Arg	
47	65 70 75 80	
49	ctg tgc tat tat cta gga gcc aca aaa gac gca gcc aca aag atc cta	288
50	Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp Ala Ala Thr Lys Ile Leu	
51	85 90 95	
53	agt gaa gtc act cgc cca atg agt gtg cat atg cct gca atg aag att	336
54	Ser Glu Val Thr Arg Pro Met Ser Val His Met Pro Ala Met Lys Ile	
55	100 105 110	
57	tgt gag aag ctg aag aag ttg gat agc cag atc tgt gag ctg aaa tat	384
58	Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln Ile Cys Glu Leu Lys Tyr	
59	115 120 125	
61	gaa aaa aca ctg gac ttg gca tca gtt gac ctg cgg aag atg aga gtg	432
62	Glu Lys Thr Leu Asp Leu Ala Ser Val Asp Leu Arg Lys Met Arg Val	

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63      130      135      140
65 gca gag ctg aag cag atc ctg cat agc tgg ggg gag gag tgc agg gcc      480
66 Ala Glu Leu Lys Gln Ile Leu His Ser Trp Gly Glu Glu Cys Arg Ala
67 145      150      155      160
69 tgt gca gaa aaa act gac tat gtg aat ctc att caa gag ctg gcc ccc      528
70 Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu Ile Gln Glu Leu Ala Pro
71      165      170      175
73 aag tat gca gcg aca cac ccc aaa aca gag ctc tga      564
74 Lys Tyr Ala Ala Thr His Pro Lys Thr Glu Leu
75      180      185
78 <210> SEQ ID NO: 2
79 <211> LENGTH: 187
80 <212> TYPE: PRT
81 <213> ORGANISM: Homo sapiens
83 <400> SEQUENCE: 2
84 Met Trp Cys Ala Ser Pro Val Ala Val Val Ala Phe Cys Ala Gly Leu
85 1      5      10      15
86 Leu Val Ser His Pro Val Leu Thr Gln Gly Gln Glu Ala Gly Gly Arg
87      20      25      30
88 Pro Gly Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asn Arg Phe Tyr
89      35      40      45
90 Lys Ser Leu Ile Asp Arg Gly Val Asn Phe Ser Leu Asp Thr Ile Glu
91      50      55      60
92 Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr Lys Gly Lys Glu Asn Arg
93 65      70      75      80
94 Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp Ala Ala Thr Lys Ile Leu
95      85      90      95
96 Ser Glu Val Thr Arg Pro Met Ser Val His Met Pro Ala Met Lys Ile
97      100      105      110
98 Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln Ile Cys Glu Leu Lys Tyr
99      115      120      125
100 Glu Lys Thr Leu Asp Leu Ala Ser Val Asp Leu Arg Lys Met Arg Val
101      130      135      140
102 Ala Glu Leu Lys Gln Ile Leu His Ser Trp Gly Glu Glu Cys Arg Ala
103 145      150      155      160
104 Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu Ile Gln Glu Leu Ala Pro
105      165      170      175
106 Lys Tyr Ala Ala Thr His Pro Lys Thr Glu Leu
107      180      185
111 <210> SEQ ID NO: 3
112 <211> LENGTH: 564
113 <212> TYPE: DNA
114 <213> ORGANISM: Mus musculus
116 <220> FEATURE:
117 <221> NAME/KEY: CDS
118 <222> LOCATION: (1)..(564)
120 <400> SEQUENCE: 3
121 atg cgg tgc atc agt cca act gct ctg gtg acc ttt tgc gcc ggg ttt      48
122 Met Arg Cys Ile Ser Pro Thr Ala Leu Val Thr Phe Cys Ala Gly Phe

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123      1              5              10              15
125 tgt atc tcg aac cct gtg ctg gcg cag ggc ctg gag gcc ggt gtg ggg 96
126 Cys Ile Ser Asn Pro Val Leu Ala Gln Gly Leu Glu Ala Gly Val Gly
127              20              25              30
129 ccg agg gct gac tgt gaa gta tgt aaa gaa ttc tta gac cga ttc tac 144
130 Pro Arg Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asp Arg Phe Tyr
131              35              40              45
133 aac tcc ctg cta agc aga ggc ata gac ttt tct gcg gac acc ata gag 192
134 Asn Ser Leu Leu Ser Arg Gly Ile Asp Phe Ser Ala Asp Thr Ile Glu
135              50              55              60
137 aaa gag ctg ctc aac ttt tgc tca gat gcc aaa gga aaa gaa aac cgc 240
138 Lys Glu Leu Leu Asn Phe Cys Ser Asp Ala Lys Gly Lys Glu Asn Arg
139 65              70              75              80
141 ctg tgc tat tat ctg ggg gcc acc aca gat gca gcc acc aag atc cta 288
142 Leu Cys Tyr Tyr Leu Gly Ala Thr Thr Asp Ala Ala Thr Lys Ile Leu
143              85              90              95
145 gga gaa gtc act cgt ccc atg agt gta cac ata cct gcc gtg aag att 336
146 Gly Glu Val Thr Arg Pro Met Ser Val His Ile Pro Ala Val Lys Ile
147              100              105              110
149 tgt gag aag cta aag aag atg gac agc cag atc tgt gag ctg aaa tac 384
150 Cys Glu Lys Leu Lys Lys Met Asp Ser Gln Ile Cys Glu Leu Lys Tyr
151              115              120              125
153 ggg aag aag ctg gac ttg gcg tcg gtg gac ctg tgg aag atg aga gtg 432
154 Gly Lys Lys Leu Asp Leu Ala Ser Val Asp Leu Trp Lys Met Arg Val
155              130              135              140
157 gca gag cta aag cag atc ctt cag aga tgg ggg gaa gag tgc agg gca 480
158 Ala Glu Leu Lys Gln Ile Leu Gln Arg Trp Gly Glu Glu Cys Arg Ala
159 145              150              155              160
161 tgt gcg gag aaa agt gac tac gtg aac ctc att aga gag ctg gcc ccc 528
162 Cys Ala Glu Lys Ser Asp Tyr Val Asn Leu Ile Arg Glu Leu Ala Pro
163              165              170              175
165 aaa tat gta gag ata tac ccc caa acg gag ctc tga 564
166 Lys Tyr Val Glu Ile Tyr Pro Gln Thr Glu Leu
167              180              185
170 <210> SEQ ID NO: 4
171 <211> LENGTH: 187
172 <212> TYPE: PRT
173 <213> ORGANISM: Mus musculus
175 <400> SEQUENCE: 4
176 Met Arg Cys Ile Ser Pro Thr Ala Leu Val Thr Phe Cys Ala Gly Phe
177      1              5              10              15
178 Cys Ile Ser Asn Pro Val Leu Ala Gln Gly Leu Glu Ala Gly Val Gly
179              20              25              30
180 Pro Arg Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asp Arg Phe Tyr
181              35              40              45
182 Asn Ser Leu Leu Ser Arg Gly Ile Asp Phe Ser Ala Asp Thr Ile Glu
183              50              55              60
184 Lys Glu Leu Leu Asn Phe Cys Ser Asp Ala Lys Gly Lys Glu Asn Arg
185 65              70              75              80

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186 Leu Cys Tyr Tyr Leu Gly Ala Thr Thr Asp Ala Ala Thr Lys Ile Leu
187           85           90           95
188 Gly Glu Val Thr Arg Pro Met Ser Val His Ile Pro Ala Val Lys Ile
189           100          105          110
190 Cys Glu Lys Leu Lys Lys Met Asp Ser Gln Ile Cys Glu Leu Lys Tyr
191           115          120          125
192 Gly Lys Lys Leu Asp Leu Ala Ser Val Asp Leu Trp Lys Met Arg Val
193           130          135          140
194 Ala Glu Leu Lys Gln Ile Leu Gln Arg Trp Gly Glu Glu Cys Arg Ala
195          145          150          155          160
196 Cys Ala Glu Lys Ser Asp Tyr Val Asn Leu Ile Arg Glu Leu Ala Pro
197           165          170          175
198 Lys Tyr Val Glu Ile Tyr Pro Gln Thr Glu Leu
199           180          185
202 <210> SEQ ID NO: 5
203 <211> LENGTH: 26
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence:
209     Oligonucleotide primer
211 <400> SEQUENCE: 5
212 accatgcggt gcatcagttcc aactgc                26
215 <210> SEQ ID NO: 6
216 <211> LENGTH: 23
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Description of Artificial Sequence:
222     Oligonucleotide primer
224 <400> SEQUENCE: 6
225 ctcatgggac gagtgacttc tcc                23
228 <210> SEQ ID NO: 7
229 <211> LENGTH: 26
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence:
235     Oligonucleotide primer
237 <400> SEQUENCE: 7
238 gtcagagctc cgtttggggg tatatc                26
241 <210> SEQ ID NO: 8
242 <211> LENGTH: 22
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence:
248     Oligonucleotide primer
250 <400> SEQUENCE: 8

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Output Set: N:\CRF4\07062006\J648361A.raw

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251 gagctccggtt tgggggtata tc                                22
254 <210> SEQ ID NO: 9
255 <211> LENGTH: 26
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence:
261     Oligonucleotide primer
263 <400> SEQUENCE: 9
264 accatgtggt gcgcgagccc agttgc                                26
267 <210> SEQ ID NO: 10
268 <211> LENGTH: 25
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence:
274     Oligonucleotide primer
276 <400> SEQUENCE: 10
277 gcacactcat tgggcgagtg acttc                                25
280 <210> SEQ ID NO: 11
281 <211> LENGTH: 27
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence:
287     Oligonucleotide primer
289 <400> SEQUENCE: 11
290 gatcagagct ctgttttggg gtgtgtc                                27
293 <210> SEQ ID NO: 12
294 <211> LENGTH: 22
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Description of Artificial Sequence:
300     Oligonucleotide primer
302 <400> SEQUENCE: 12
303 gagctctggtt ttgggggtgtg tc                                22
306 <210> SEQ ID NO: 13
307 <211> LENGTH: 179
308 <212> TYPE: PRT
309 <213> ORGANISM: Homo Sapiens
311 <400> SEQUENCE: 13
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314 1          5          10          15
317 Pro Gly Ser Arg Ala Leu Arg Pro Gly Asp Cys Glu Val Cys Ile Ser
318          20          25          30
321 Tyr Leu Gly Arg Phe Tyr Gln Asp Leu Lys Asp Arg Asp Val Thr Phe
322          35          40          45
325 Ser Pro Ala Thr Ile Glu Asn Glu Leu Ile Lys Phe Cys Arg Glu Ala

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/06/2006
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Input Set : A:\2006-06-29 0933-0210P.ST25.txt
Output Set: N:\CRF4\07062006\J648361A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; Xaa Pos. 123,124

VERIFICATION SUMMARY

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Input Set : A:\2006-06-29 0933-0210P.ST25.txt

Output Set: N:\CRF4\07062006\J648361A.raw

L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:112